REPLACED
ART 34 AMDT   11

Claims

1.   A method for updating a firmware of a mobile device belonging to a network, **characterized** in that the method comprises steps of

5

- transmitting update data from a network unit by a mobile device (403), to which there is connected a logic, external memory unit,

- storing the update data in the external memory unit (203, 303, 406) of the mobile device, and

- programming the stored update data in the permanent memory unit (204, 306, 408) of the mobile device, according to the programming logics provided in

10   the mobile device.

2.   A method according to claim 1, **characterized** in that it comprises a step of transmitting the update data from the network unit to the mobile device as a response to a certain function that triggers the transmission, said function being one of the following: choosing from the network unit's menu (402) by a user, choosing

15   from the mobile device's menu (201) by a user, an appearing of new update data to the network unit, or an outdating (301) of the firmware of the mobile device.

3.   A method according to claim 1, **characterized** in that the logic, external memory unit is connected to the mobile device by means of an external memory bus (105).

20   4.   A method according to claim 1, **characterized** in that it comprises a step of transmitting the update data by the mobile device (403), where the update data is converted to be compatible with the memory unit and with the memory bus (405) to be connected thereto, whereafter the converted update data is transmitted to the external memory unit along the memory bus (406).

25   5.   A method according to claim 1, **characterized** in that it comprises a step of transmitting the update data by a mobile device, through which the update data is directly transmitted further to the external memory bus of the mobile device along a memory bus (203).

6.   A method according to claim 1, **characterized** in that it comprises a step of

30   programming the update data stored in the external memory unit in the mobile device, when the mobile device is switched on for the next time (304, 307, 407, 409).

7.   A method according to claim 1, **characterized** in that it comprises a step of copying the programming logics for programming the update data from an external memory unit to the permanent memory unit of the mobile device prior to programming the update data (305).

5   8.   A method according to claim 1, **characterized** in that it comprises a step of storing the programming logics for updating the update data from the permanent memory of the mobile device to the RAM memory of the mobile device prior to programming the update data.

9.   An arrangement for updating a firmware of a mobile device belonging to a
10   network, **characterized** in that the arrangement includes

-    an external memory unit (106) for storing the update data,

-    means for transmitting the update data from a network (107) unit to the external memory unit (106) of the mobile device,

-    means for storing the update data to the external memory unit (106) of the
15   mobile device, and

-    means for programming the stored update data to the permanent memory unit (102) of the mobile device by means of a programming driver provided in the mobile device.

10.   An arrangement according to claim 9, **characterized** in that the mobile device
20   includes an external bus (105) for connecting a logic, external memory unit (106) to the mobile device (101).

11.   An arrangement according to claim 9, **characterized** in that the mobile device includes means for converting the update data into a form (104, 105) required by the external memory unit.

25   12.   An arrangement according to claim 9, **characterized** in that the mobile device includes means for copying the programming driver to its permanent memory unit (102) from the external memory unit (106) prior to programming the update data.

13.   An arrangement according to claim 9, **characterized** in that said means are programmable means.